**Major features of the SB-29**

- The SB-29 consists of the main unit and controller. Attach the main unit to the lens to take flash photography with Manual Speedlight in combination with Micro-Nikkor lenses.
- The controller can take close-up flash photography when using the built-in illuminator. It can also take pictures of flowers, insects, or small objects using the Macro Speedlight function with the SB-29 controller.

- The main unit can be attached to the lens to take close-up flash photography.
  - Set the SB-29 power switch to OFF, then slide down the battery chamber lid on both sides.
  - Install the rechargeable batteries following the steps in the instruction manual.
  - Install the AF assist illuminator lamp button on the front of the controller.

- Four AA*-type alkaline batteries of any of these types are usable:
  - Eveready 2534, Panasonic 2534 (carbon-zinc), and Philips 2534 (alkaline)
  - For best results, use four new batteries. Old batteries may not be able to operate the controller.

- The SB-29 consists of the controller and main unit. Attach the controller to the camera and lens in the same way as the first controller.

**Installing the batteries**

1. Slide the SB-29 power switch to OFF and slide down the battery chamber lid on both sides.
2. Install the rechargeable batteries following the steps in the instruction manual.
3. Install the AF assist illuminator lamp button on the front of the controller.

**Attaching the controller to the camera**

1. Loosen the SB-29 mounting bolt nut on both sides and slide the mounting bolt nut up and off.
2. Tighten the lock nut by sliding it in the direction of the arrow.
3. Turn the lock nut counter clockwise.

**Attaching the controller main unit**

- The SB-29 controller is mounted in front of the controller.
- The controller and main unit are connected by a cord. Attach the controller to the camera and lens in the same way as the first controller.

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**Tips on using the Speedlight**

- Always keep the SB-29 controller and main unit at least 4 ft (1.2m) from the subject.
- If a white net is used, set the SB-29 power switch to STBY before opening the net. Close the net when finished and turn off the SB-29.
- Use the SB-29 controller at night or in the dark. Set the controller to take pictures with the SB-29 in the dark.

- When using an SB-29 controller, always set the SB-29 controller to take pictures with the SB-29 in the dark.
- Always keep the SB-29 controller and main unit at least 4 ft (1.2m) from the subject.
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**Nomenclature**

- Each speedlight accessory is marked with its name and model number. Use this mark to replace the accessory.
- The SB-29 controller is mounted in front of the controller.
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**Nikon Corporation**

- This SB-29 instruction manual is in the same language as the SB-29 controller.
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Flash shooting with SB-29 only

- Intentionally change the aperture set on the camera or lens aperture ring.

In close-up flash photography, it's recommended to take additional shots with larger aperture (smaller f-number) and reshoot.

- The SB-29's illumination that is reflected back from the subject measures the SB-29's illumination that is reflected back from the subject. In this mode, the built-in TTL auto flash sensor in cameras so equipped determines the effective f-number of the lens used in the same plane as the subject.

TTL Auto Flash Mode

- Determine an appropriate aperture by referring to the "Aperture/reproduction ratio panel." Effective f-numbers are displayed on the SB-29's "Aperture/reproduction ratio panel."

Bellows Focusing Attachment, refer to its instruction manual.

For Micro-Nikkor lenses in normal position, read the number engraved on the lens focus ring. It is usually in the form of 1:n or 1/n. When using Nikon Bellows Focusing Attachment or bellows, refer to its instruction manual.

- Place a ruler in the same plane as the subject, then read the subject's distance and calculate the reproduction ratio (M) using the equation:

\[ M = \frac{R}{r} \]

where \( M \) is the reproduction ratio, \( R \) is the distance from the subject to the camera, and \( r \) is the distance from the subject to the lens focus ring.

- At a reproduction ratio of 1:10 or greater, it is difficult to obtain the correct exposure if the flash output level is M or M/4. Effective f-numbers of macro lenses such as Micro-Nikkor lenses vary and the effective f-number should be determined for each lens used in close-up photography.

- The reproduction ratio (M) is:

\[ M = \frac{R}{r} \]

- For example:

For a reproduction ratio of 1:10, the effective f-number is calculated as follows:

\[ f = \frac{R}{r} \]

- Or if the viewfinder frame size is 21 x 32mm, the reproduction ratio (M) is:

\[ M = \frac{R}{r} \]

- The SB-29's illuminator lamp can be used to illuminate dark subjects.

Autoexposure in dim light

- The SB-29's illuminator lamp can be used to illuminate dark subjects.

- When recharging NiCd or Ni-MH batteries, be sure to use the battery charger specified in the instruction manual. Rechargeable batteries do not retain their performance when they are not regularly charged. For safe handling of the Speedlight, refer to the instruction manual.

- Three positions are provided: OFF, ON and STBY (standby).

- Flash duration

\[ t = \frac{1}{f} \]

- Power source

- Electronic construction

- Warning indicator

- Exposure compensation in close-up flash photography

- This is the exposure compensation in close-up flash photography. When the distance from the subject is greater than the minimum distance, refer to the instruction manual for the correct exposure compensation.

- Exposure compensation in TTL Auto Flash "TTL" mode

- This is the exposure compensation in TTL Auto Flash "TTL" mode.

- Exposure compensation in Manual "M" mode

- This is the exposure compensation in Manual "M" mode.

- Multiple flash operation

- You can use additional flash units to eliminate harsh shadows cast by the main flash unit. For example, you can use one flash unit in the spotlight mode for a small portrait flash and another flash unit in the spotlight mode for a small portrait flash. The SB-29's illuminator lamp can be used to illuminate dark subjects.

- Press the AF assist illuminator lamp button to turn on the lamp.

- Optional accessories

- Note

- Warnings

- Troubleshooting

- Tips on Speedlight care

- Checking the lighting effects before shooting

- Flash duration

\[ t = \frac{1}{f} \]

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